

# **Generative AI In Agriculture Market Size, Share & Trends Analysis Report By Technology, By Application (Precision Farming, Livestock Management, Agricultural Robotics & Automation, Weather Forecasting), By Region, And Segment Forecasts, 2025 - 2033**

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## **Abstracts**

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### Generative AI In Agriculture Market Summary

The global generative AI in agriculture market size was estimated at USD 226.2 million in 2024 and is projected to reach USD 2,158.9 million by 2033, growing at a CAGR of 28.7% from 2025 to 2033. Farmers are increasingly using generative models to predict yields, weather impacts, and input requirements.

This trend supports precision agriculture by enabling scenario-based planning. The global generative AI in agriculture industry is witnessing a shift toward AI-driven crop simulation and decision-making tools. The development of specialized, accessible, and efficient AI models for agricultural advisory, yield prediction, and climate adaptation is driving growth in the generative AI in agriculture market. This indicates growing demand for localized, multilingual, and climate-resilient advisory tools, especially for smallholder farmers in emerging regions, and signals a shift from general-purpose AI to frugal, scalable solutions suited for underserved agricultural ecosystems. Companies are increasingly developing lightweight, specialized models to address these needs at scale. For instance, in April 2024, Cropin Technology Solutions Private Limited, a software company in India, launched ak?ara, an open-source micro language model

built on Mistral, designed for climate-smart agriculture in the Global South. It supports nine key crops across five countries, offering localized, low-resource generative AI advisory to smallholder farmers and agricultural stakeholders. This initiative highlights the growing focus on making generative AI more inclusive, sustainable, and aligned with regional agrarian priorities.

The increasing integration of AI with existing digital agriculture platforms is propelling market growth as it enables timely and data-driven decisions throughout the farming cycle. These platforms use generative AI alongside satellite imagery, IoT data, and management systems to deliver context-specific recommendations. This improves resource efficiency, better crop outcomes, and reduced operational risks. Farmers can respond more effectively to dynamic factors such as weather changes or pest threats. The rising demand for intelligent, connected farming solutions is accelerating the adoption of generative AI in agriculture. For instance, in March 2024, Bayer AG, a German life science company, collaborated with Microsoft and Ernst & Young to launch a pilot generative AI system trained on proprietary agronomic data and expert insights. The tool provides fast, accurate recommendations and expands access to agronomic intelligence, especially for smallholder farmers, through customized, validated responses.

Advancements in machine learning, computer vision, and compute/cloud infrastructure are transforming agricultural practices. Machine learning algorithms enable accurate predictions for crop yields, disease outbreaks, and soil health. Computer vision systems process drone and satellite imagery to monitor crop conditions in real time. These tools help detect issues such as pest infestations or nutrient deficiencies with high precision. Meanwhile, improvements in cloud infrastructure provide scalable data storage and processing capabilities. Farmers can now access analytics platforms from remote locations, enabling informed decision-making. Integration with IoT devices further enhances real-time monitoring and automation. These technologies reduce manual intervention and improve operational efficiency. Cloud-based solutions also support collaboration between stakeholders across the value chain. Together, these advancements are driving a data-driven shift toward smarter, more sustainable agriculture.

## Global Generative AI In Agriculture Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends and opportunities in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the

global generative AI in agriculture market report in terms of technology, application, and region.

Technology Outlook (Revenue, USD Million, 2021 - 2033)

Machine Learning

Natural Language Processing

Computer Vision

Generative Adversarial Networks (GANs)

Application Outlook (Revenue, USD Million, 2021 - 2033)

Precision Farming

Livestock Management

Agricultural Robotics & Automation

Weather Forecasting

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

Japan

India

Australia

South Korea

Latin America

Brazil

Middle East & Africa (MEA)

KSA

UAE

South Africa

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